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NEWS	14	JAN 31	Monthly current-awareness alert (SDI) frequency added to TULSA
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NEWS EXPRESS	FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT http://download.cas.org/express/v8.0-Discover/		
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SINCE FILE

TOTAL

ENTRY

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FULL ESTIMATED COST

0.21

0.21

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=> s cumene/ti

2174 CUMENE/TI

22 CUMENES/TI

L1 2196 CUMENE/TI

((CUMENE OR CUMENES)/TI)

=> s hydroperoxide/ti

5524 HYDROPEROXIDE/TI

3333 HYDROPEROXIDES/TI

L2 8723 HYDROPEROXIDE/TI

((HYDROPEROXIDE OR HYDROPEROXIDES)/TI)

=> s l1 and l2

L3 815 L1 AND L2

=> s phenol/ti and acetone/ti

30474 PHENOL/TI

17914 PHENOLS/TI

47887 PHENOL/TI

((PHENOL OR PHENOLS)/TI)

15086 ACETONE/TI

96 ACETONES/TI

15181 ACETONE/TI

((ACETONE OR ACETONES)/TI)

L4 414 PHENOL/TI AND ACETONE/TI

=> s l3 and l4

L5 62 L3 AND L4

=> s catalytic/ti
118394 CATALYTIC/TI
3 CATALYTICS/TI
L6 118397 CATALYTIC/TI
((CATALYTIC OR CATALYTICS)/TI)

=> s 15 and 16
L7 3 L5 AND L6

=> s decomposition/t
'T' IS NOT A VALID FIELD CODE
L8 0 DECOMPOSITION/T

=> s decomposition/ti
80764 DECOMPOSITION/TI
972 DECOMPOSITIONS/TI
81705 DECOMPOSITION/TI
((DECOMPOSITION OR DECOMPOSITIONS)/TI)
81 DECOMP/TI
L9 81782 DECOMPOSITION/TI
((DECOMPOSITION OR DECOMP)/TI)

=> s 17 and 19
L10 3 L7 AND L9

=> d bib abs 1-3

L10 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2001:651046 CAPLUS
DN 136:8028
TI Catalytic decomposition of cumene
hydroperoxide into phenol and acetone
AU Selvin, Rosilda; Rajarajeswari, G. R.; Selva Roselin, L.; Sadasivam, V.;
Sivasankar, B.; Rengaraj, K.
CS Department of Chemistry, Anna University, Chennai, 600025, India
SO Applied Catalysis, A: General (2001), 219(1-2), 125-129
CODEN: ACAGE4; ISSN: 0926-860X
PB Elsevier Science B.V.
DT Journal
LA English
AB The decomposition of cumene hydroperoxide (CHP) was carried out in a batch
reactor over supported solid heteropolyacid catalysts on H2SO4 activated
montmorillonite K10 (M-K10) and metal-ion-exchanged M-K10, at
30-60°. The metal catalyst supports were prepared by wet
impregnation of M-K10 with metal chloride solns. (Zn, Fe, La, Ce).
Acid-activated supported dodecatungstophosphoric acid (DTPA) showed 100%
conversion within 5 min at 30°; the products were phenol and
acetone. The correlation of catalytic activity with acidity revealed that
both Lewis and Bronsted acid sites promote the decomposition. The reaction was
first-order with respect to CHP. The heterogeneous catalysts may be used
instead of sulfuric acid for selective decomposition of CHP into phenol and
acetone with 100% conversion.
RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1984:50746 CAPLUS
DN 100:50746
TI Phenol-acetone process. Acetone reactions
in the medium of catalytic decomposition of industrial
grade cumene hydroperoxide
AU Rivolta, Luigi; Battiston, Giancarlo; D'Alfonso, Giuseppe
CS Cent. Ric., Montedipe S.p.A., Bollate, Italy
SO Chimica e l'Industria (Milan, Italy) (1983), 65(9), 545-8

CODEN: CINMAB; ISSN: 0009-4315

DT Journal
LA English
AB In the title study at 60-100°, kinetic information on acetone self-condensation reactions were interpreted according to a simplified scheme in which the rate-determining step was diacetone alc. production
Kinetic
const. were correlated to both reaction conditions and catalyst (H2SO4) concentration

L10 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1961:37920 CAPLUS
DN 55:37920
OREF 55:7357f-g
TI Phenol and acetone by catalytic decomposition of cumene hydroperoxide
IN Teichert, Andrzej; Leszczynski, Zbigniew; Radoniewicz, Hanna
PA Instytut Chemii Ogólnej
DT Patent
LA Unavailable
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	PL 42393		19590930	PL	
AB	Decomposition of cumene hydroperoxide is effected in the presence of strongly acid cation exchange resins, preferably activated by saturation with Me2CO. The method exceeds others in yield by 5-7%, minimizes corrosion hazards, and gives the highest output/volume unit of apparatus Cf. abstract from Zbigniew Leszczy.acte.nski in CA 52, 13664f.				

=> FIL STNGUIDE
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
21.76	21.97

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
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SINCE FILE	TOTAL
ENTRY	SESSION
-2.25	-2.25

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Mar 10, 2006 (20060310/UP).

=> s l10
'TI' IS NOT A VALID FIELD CODE
0 CUMENE/TI
0 HYDROPEROXIDE/TI
0 PHENOL/TI
0 ACETONE/TI
0 CATALYTIC/TI
0 DECOMPOSITION/TI
L11 0 L7 AND L9

=> file caplus
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
0.90	22.87

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
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	ENTRY	SESSION
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=> s l10

L12 3 L7 AND L9

=> s two and zone

2144922 TWO

37 TWOS

2144951 TWO

(TWO OR TWOS)

282059 ZONE

103593 ZONES

348434 ZONE

(ZONE OR ZONES)

L13 39123 TWO AND ZONE

=> s l10 and l12

L14 3 L10 AND L12

=> s reactor

407193 REACTOR

240687 REACTORS

L15 456654 REACTOR

(REACTOR OR REACTORS)

=> s l14 and l15

L16 1 L14 AND L15

=> d bib abs

L16 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:651046 CAPLUS

DN 136:8028

TI Catalytic decomposition of cumene
hydroperoxide into phenol and acetone

AU Selvin, Rosilda; Rajarajeswari, G. R.; Selva Roselin, L.; Sadasivam, V.;
Sivasankar, B.; Rengaraj, K.

CS Department of Chemistry, Anna University, Chennai, 600025, India

SO Applied Catalysis, A: General (2001), 219(1-2), 125-129

CODEN: ACAGE4; ISSN: 0926-860X

PB Elsevier Science B.V.

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=> LOG Y

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	ENTRY	SESSION
FULL ESTIMATED COST	9.97	32.84
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
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L1 0 3037052/PN

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.41	2.62

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=> s 0367408/pn
L1 0 0367408/PN

=> s 3037052
L2 0 3037052

=> s 3037052/pn
L3 0 3037052/PN

=>

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FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
6.31	6.52

STN INTERNATIONAL LOGOFF AT 08:42:52 ON 16 MAR 2006